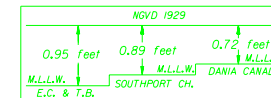
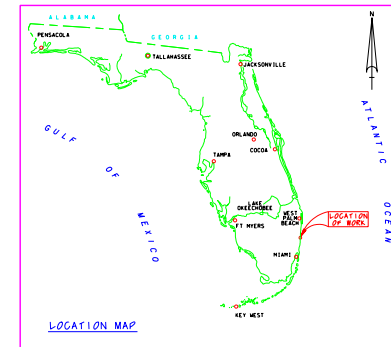


PORT EVERGLADES HARBOR BROWARD COUNTY, FLORIDA PROJECT CONDITION SURVEY



Relationship between NGVD 1929
and NOAA Mean Lower Low Water
Tidal Datum (1960-1978 epoch)

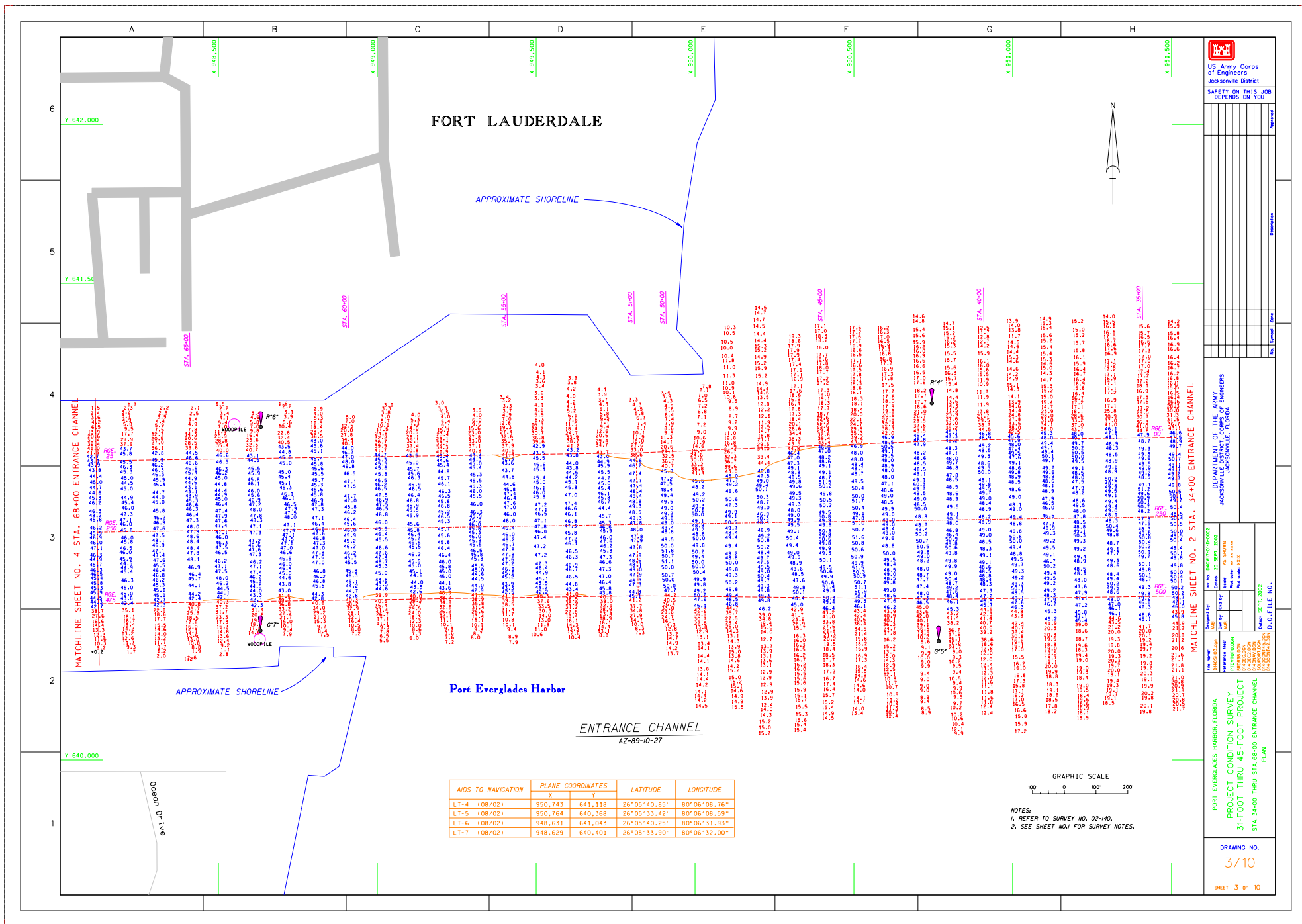
| BENCHMARK | NGVD ELEV. (FT) | LOCATION |
|-----------|--------------------|----------------|
| DAD 1948 | 5.13 | SLIP 1, PIER 1 |

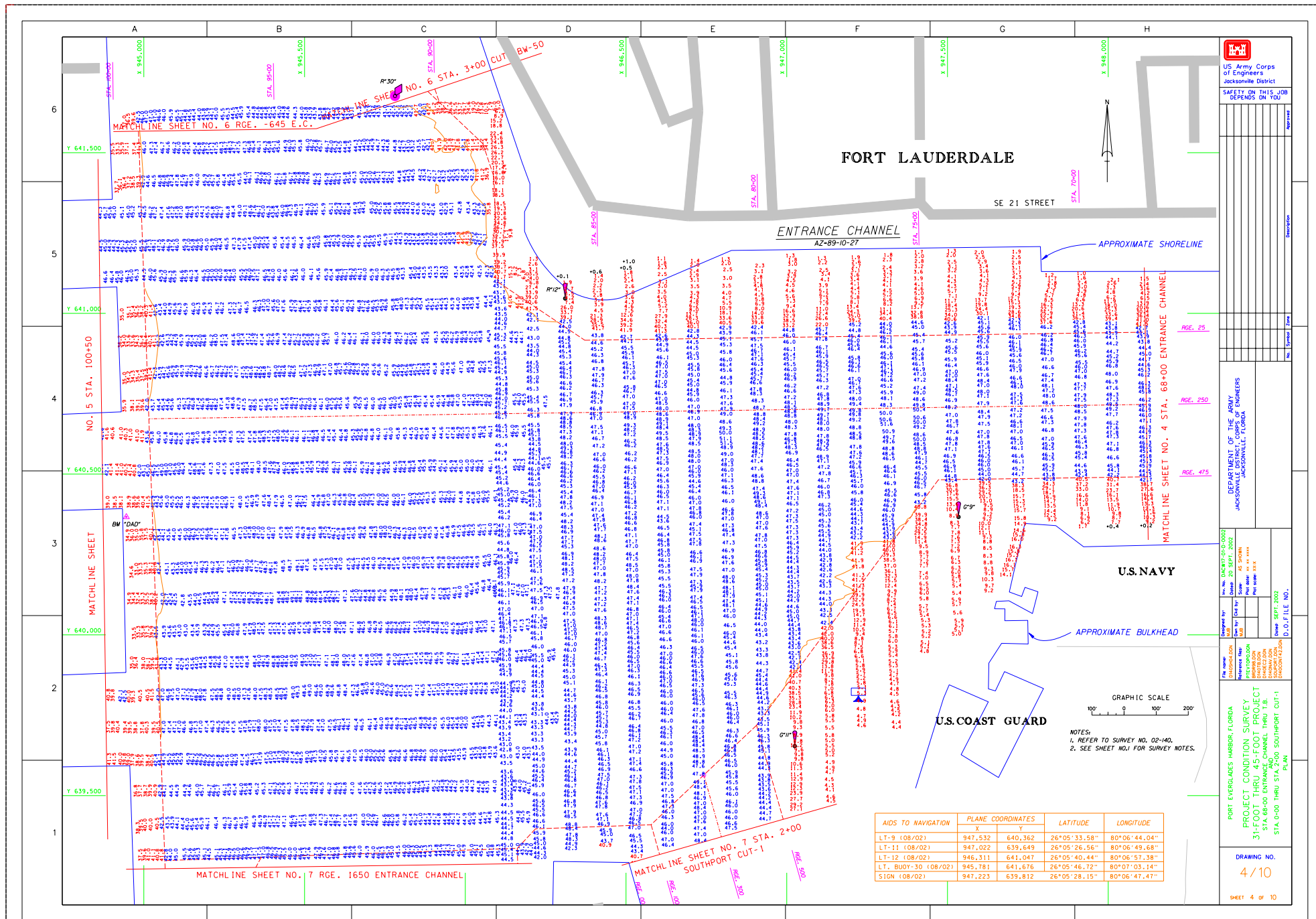
| LEGEND | |
|--------|--------------------|
| +BM | BENCHMARK |
| ⬮ | LIGHTED BEACON |
| □ | GREEN DAYBEACON |
| △ | RED DAYBEACON |
| ⬮ | RED LIGHTED BUOY |
| ⬮ | GREEN LIGHTED BUOY |
| ⬮ | CAN BUOY |
| ⬮ | NUN BUOY |
| ⬮ | TIDE STAFF |

SURVEY NOTES:

1. REFER TO SURVEY NO. 02-140.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER WHICH IS 0.95 FEET BELOW NGVD 1929 FOR THE ENTRANCE CHANNEL & TURNING BASIN, 0.89 FEET BELOW NGVD 1929 FOR THE SOUTHPORT CHANNELS AND 0.72 FEET BELOW NGVD 1929 IN THE DANIA CUT-OFF CANAL.
3. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF. SEE TABULATION ON THIS SHEET FOR BENCHMARK AND LOCATION.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING A KNUDSEN 320M SOUNDER DEPTH RECORDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.
9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 2002.
12. ALL SURVEY DATA WAS COLLECTED BY SEA SYSTEMS CORP.

| VESSEL | DATE OF SURVEY | CUT |
|--------------|-----------------|---------------------------|
| PRIVATEER II | 19-21 AUG. 2002 | EC, TB, CUT 1-3, NAV-AIDS |
| PRIVATEER II | 9 SEPT. 2002 | E.C. STA 61+00-90+00 |





US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

PROJECT: PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 68+00 ENTRANCE CHANNEL THRU R.S.
STA. 68+00 THRU STA. 68+00 SOUTHPORT CUT-1
DATE: 08/02/02
D.D. FILE NO.

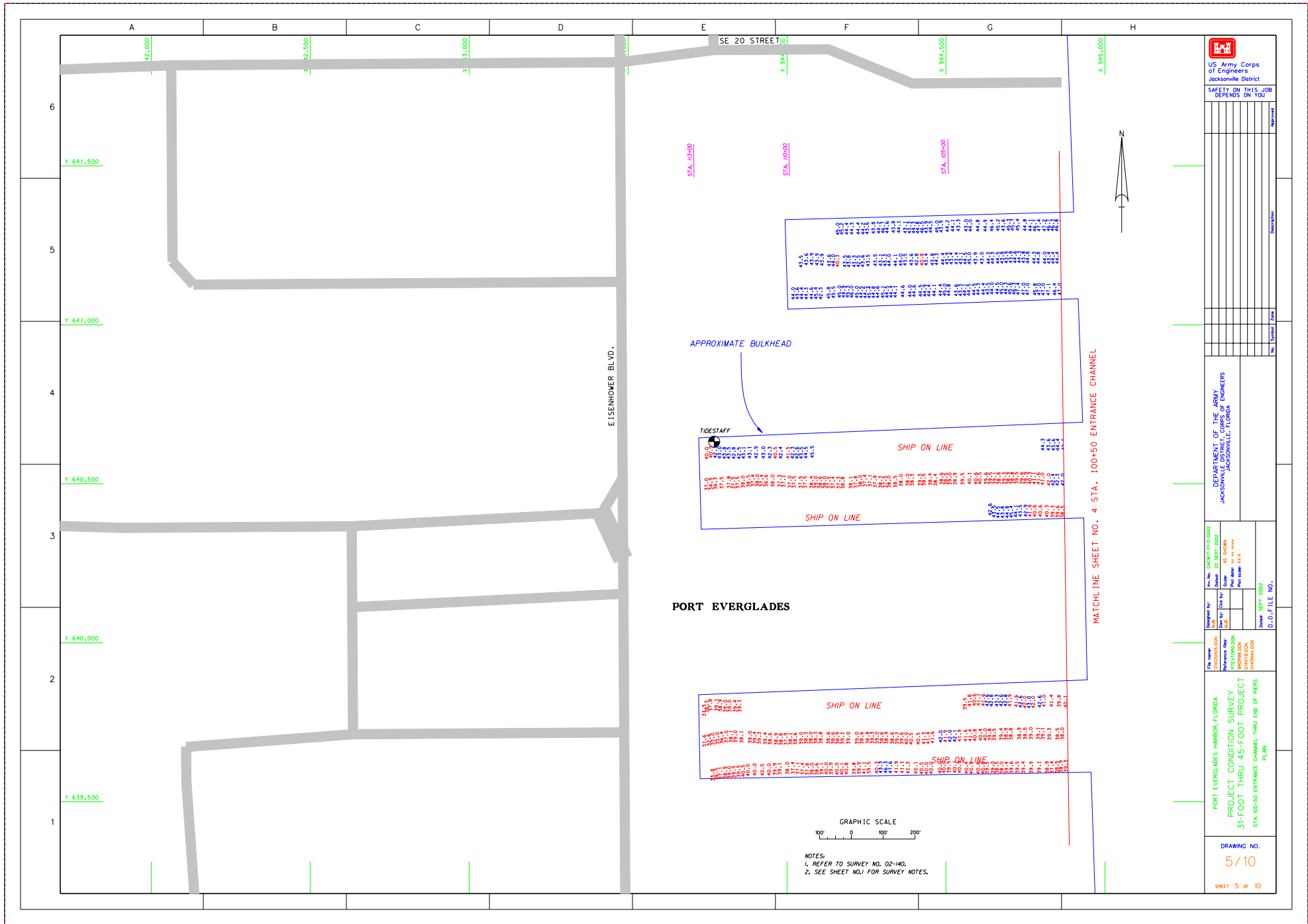
DATE: 08/02/02
SCALE: AS SHOWN
PLOT DATE: 08/02/02
PLOT SCALE: 1"=100'

NOTES:
1. REFER TO SURVEY NO. 02-MO.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

DRAWING NO.
4/10

SHEET 4 OF 10

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---------------------|-------------------|---------|--------------|--------------|
| | X | Y | | |
| LT-9 (08/02) | 947,532 | 640,362 | 26°05'33.58" | 80°06'44.04" |
| LT-11 (08/02) | 947,022 | 639,649 | 26°05'26.56" | 80°06'49.68" |
| LT-12 (08/02) | 946,311 | 641,047 | 26°05'40.44" | 80°06'57.38" |
| LT. BUOY-30 (08/02) | 945,781 | 641,676 | 26°05'46.72" | 80°07'03.14" |
| SGN (08/02) | 947,223 | 639,812 | 26°05'28.15" | 80°06'47.47" |



US Army Corps
of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

| Project Name | |
|------------------|--|
| Project Number | |
| Project Location | |
| Project Date | |
| Project Status | |
| Project Manager | |
| Project Engineer | |
| Project Designer | |
| Project Checker | |
| Project Approver | |

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

| Project Name | PORT EVERGLADES HARBOR, FLORIDA |
|------------------|---------------------------------|
| Project Number | 02-140 |
| Project Location | PORT EVERGLADES HARBOR, FLORIDA |
| Project Date | 20 SEP 2002 |
| Project Status | AS SHOWN |
| Project Manager | AS SHOWN |
| Project Engineer | AS SHOWN |
| Project Designer | AS SHOWN |
| Project Checker | AS SHOWN |
| Project Approver | AS SHOWN |

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 100+50 ENTRANCE CHANNEL THRU END OF PERS
PLAN

DRAWING NO.
5/10
SHEET 5 OF 10

